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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,832	09/17/2003	Ittai Anati	P-5620-US	2700
49444	7590	06/26/2006	EXAMINER	
PEARL COHEN ZEDEK LATZER, LLP 1500 BROADWAY, 12TH FLOOR NEW YORK, NY 10036			JOHNSON, BRIAN P	
			ART UNIT	PAPER NUMBER
			2183	

DATE MAILED: 06/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/663,832

Applicant(s)

ANATI ET AL.

Examiner

Brian P. Johnson

Art Unit

2183

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

1. Claims 1-51 have been examined.

Acknowledgment of papers filed: oath, specification, and drawings on September 17th, 2003. The papers filed have been placed on record.

Specification

2. The title is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

3. Claim 4 is objected to because of the following informalities: It is unclear how a predetermined template is generated within the processing system. This template is no more than a format known at the time the processor is created. Appropriate correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Additionally, 35 U.S.C. 101 requires the following:

The claimed invention as a whole must be useful and accomplish a practical application. That is, it must produce a "useful, concrete and tangible result." State Street, 149 F.3d at 1373-74, 47 USPQ2d at 1601-02. The tangible requirement does not necessarily mean that a claim must either be tied to a particular machine or apparatus or must operate to change articles or materials to a different state or

thing. However, the tangible requirement does require that the claim must recite more than a Sec. 101 judicial exception, in that the process claim must set forth a practical application of that Sec. 101 judicial exception to produce a real-world result. *Benson*, 409 U.S. at 71-72, 175 USPQ at 676-77 (invention ineligible because had "no substantial practical application."). "[A]n application of a law of nature or mathematical formula to a . . . process may well be deserving of patent protection." *Diehr*, 450 U.S. at 187, 209 USPQ at 8 (emphasis added); see also *Corning*, 56 U.S. (15 How.) at 268, 14 L.Ed. 683 ("It is for the discovery or invention of some practical method or means of producing a beneficial result or effect, that a patent is granted . . ."). In other words, the opposite meaning of "tangible" is "abstract."

5. Claims 1-51 are rejected under 35 U.S.C. 101 because they lack a tangible result.

Regarding claims 4-6, "generating micro-operation templates" does not appear to be a tangible result since this is just a predetermined template used determine the format of a saved instruction. In fact, it is unclear how this template is generated in the method—see objection above.

Regarding claims 13-16, "decoding" is not considered to be a tangible result. Examiner notes that the template is used to select values, but this appears to be just a particular feature of the template. The actual act of "selecting" is not claimed.

Regarding claims 49-50, "decoding" is not considered to be a tangible result.

Regarding the remaining claims, Applicant's claim language regarding "generating an indication" and "selecting values" do not appear to have a tangible result because they only claim a technique of choosing a value, rather than a final, tangible result of, for example, storing the chosen values.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Col (U.S. Patent No. 6,330,657).

8. Regarding claim 1, Col discloses a method comprising: selecting values for a field of a micro-operation based at least upon bits of a field of a micro-operation template, wherein the number of said bits is fewer than the number of bits in said field of said micro-operation (col 3 lines 46-56).

Note that Applicant's claimed invention discloses a "template" for instructions. These templates, as claimed later, contain particular fields. After considering Applicant's disclosure, it appears that these templates are no more than a formatting for instructions to be saved and these fields are no more than the formatted positions for portions of an instruction (namely, opcodes, operands, etc). Consequently, the prior art used contains, in the citation provided, two registers to hold the combined instructions. These registers clearly must contain formatting positions for the opcodes, operands and all necessary "fields" of the instruction. So, the bit positions of these instruction parts are considered to be fields and the formatting required for the disclosed instruction registers are considered to be a template.

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9. Regarding claim 2, Col discloses the method of claim 1, wherein selecting said values includes selecting said values if said micro-operation is a fused micro-operation (col 3 lines 46-52).

10. Regarding claim 3, Col discloses the method of claim 2, wherein selecting said values includes selecting said values for an op-code of said micro-operation (col 3 lines 46-56).

11. Regarding claim 4, Col discloses a method comprising: generating micro-operation templates for micro-operations, said templates including bits to be used to select values for a particular field of said micro-operations (col 3 lines 45-56), wherein the number of said bits in said templates is smaller than the maximal number of bits of said particular field (col 3 lines 45-56).

12. Regarding claim 5, Col discloses the method of claim 4, wherein said particular field is an op-code (col 8 lines 42-45).

13. Regarding claim 6, Col discloses the method of claim 4, wherein said micro-operations are fused micro-operations (col 3 lines 46-52).

14. Regarding claim 7, Col discloses a method comprising: decoding an instruction into a fused micro-operation (col 3 lines 46-56), including selecting values of a field of

said fused micro-operation based solely upon an indication that said instruction is not being decoded into a simple micro-operation (col 3 lines 18-21).

Note that a combined (fused) and an uncombined (simple) are the only two instruction possibilities. Since these are mutually exclusive, then the decision of a combined instruction is considered to be based "solely" on the indication that the instruction is not simple.

15. Regarding claim 8, Col discloses the method of claim 7, further comprising: generating said indication for said instruction from one or more fields of a micro-operation template (col 3 lines 18-21).

Note that the "conflicting instructions" as described in the citation are determined based on dependencies in the opcodes--the opcodes being a particular field of a micro-operation template.

16. Regarding claim 9, Col discloses the method of claim 7, wherein selecting values of said field includes selecting values of an operand of said fused micro-operation (col 8 lines 42-44).

17. Regarding claim 10, Col discloses a method comprising: decoding an instruction into a fused micro-operation (col 3 lines 46-56), including selecting values of a first field of said fused micro-operation based solely upon an indication that said instruction is not being decoded into a simple micro-operation (col 3 lines 18-21) and a value decoded

from a field of a micro-operation template that is used to select values of a second field of said fused micro-operation (Fig 6).

Note that, when the limitations of claims 11 and 12 are considered, this claim appears to be saying that the operand fields are selected to be put in a template based "solely" on the fact that an instruction is not a simple instruction and a "value" of the template used to selected an opcode of the combined instruction. Examiner considers that the "value" for selecting an opcode is the opcode itself. In particular, memory and logical operations are often combined because they use different hardware and are easily combinable without conflict. See fig. 6.

18. Regarding claim 11, Col discloses the method of claim 10, wherein said first field is an operand of said fused micro-operation (col 8 lines 42-44).

19. Regarding claim 12, Col discloses the method of claim 10, wherein said second field is an op-code of said fused micro-operation (col 17 lines 59-65).

20. Regarding claim 13, Col discloses a method comprising: decoding a field of a micro-operation template that is used to select values of a field of a fused micro-operation (col 14 lines 35-45 and col 8 lines 42-44)

Note that the oprocres are considered to be used to select values of a field.

In order to distinguish between different micro-operation templates that are addressed by instructions during decoding of said instructions into fused micro-operations (col 3 lines 46-56).

Note that these fused microoperations (and their associated templates) are determined based on the op-code and instruction type.

21. Regarding claim 14, Col discloses the method of claim 13, wherein said field of said fused micro-operation is an op-code of said fused micro-operation (see claim 13).

22. Regarding claim 15, Col discloses the method of claim 13, wherein said field of said fused micro-operation is an operand of said fused micro-operation (col 8 lines 42-44).

Note that these conflicts (and fused instruction template) are determined based on the operands as well as the opcodes.

23. Regarding claim 16, Col discloses a method comprising: addressing a micro-operation template by one or more instructions to be decoded (col 14 lines 34-45) into one or more fused micro-operations (col 3 lines 46-56) and by one or more instructions to be decoded into one or more simple micro-operations (fig 8 reference 714).

24. Regarding claim 17, Col discloses the method of claim 16, further comprising: generating for a particular instruction that addresses said micro-operation template an

indication whether said particular instruction is to be decoded into a fused micro-operation or into a simple micro-operation (col 3 lines 46-56).

25. Regarding claim 18, Col discloses the method of claim 17, wherein generating said indication comprises generating said indication from one or more fields of said micro-operation template and from bits extracted directly from said particular instruction (fig. 8 reference 708).

26. Regarding claim 19, Col discloses a method comprising: selecting values of a field of a micro-operation from a first set of physical traces

Note that paragraph 18 of Applicant's disclosure appears to describe a physical trace simply as registers to hold micro-operations.

If said micro-operation is simple and from a second set of physical traces if said micro-operation is fused (col 3 lines 46-56),

Note that, clearly, two registers are only required for a combined instruction.

Where said micro-operation is generated from a micro-operation template that is addressed by one or more instructions to be decoded into one or more fused micro-operations (col 3 lines 46-56 and col 14 lines 36-44) and by one or more instructions to be decoded into one or more simple micro-operations (fig 8).

27. Regarding claim 20, Col discloses the method of claim 19, wherein selecting said values comprises selecting said values based at least upon an indication whether an

instruction from which said micro-operation is being decoded is being decoded into a fused micro-operation or into a simple micro-operation (col 3 lines 46-56 and fig 8).

28. Regarding claim 21, Col discloses the method of claim 19, wherein said field is an operand of said micro-operation (fig 8 reference 708).

Claim Rejections - 35 USC § 103

29. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

30. Claims 22-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Col in view of Moore (U.S. Patent No. 4,354,228).

31. Regarding claim 22, Col discloses a processor to execute instructions (col 1 lines 26-27), the processor comprising: an instruction decoder (fig 4 reference 404) including at least: a micro-operation template to be addressed by an instruction during decoding of said instruction into a fused micro-operation having a particular field (col 3 lines 46-56); and a multiplexer to select values for said particular field based at least upon bits of a field of said micro-operation template (col 3 lines 46-56),

Note that there are two micro-instruction registers. As cited, two are used during a combined instruction suggesting that this wouldn't be the case if the instructions are

uncombinable. The American Heritage College Dictionary definition of a multiplexer is "a device that can interleave two or more activities". Clearly, in this case, the decision whether or not to route the second instruction to the second, parallel register is completed by a multiplexer.

Wherein the number of said bits is fewer than the number of bits in said particular field.

Col fails to disclose a programmable logic array to contain the hardware with the micro-operation template.

Moore discloses designing a processor utilizing a PLA (col 5 lines 56-59).

Col would have been motivated to utilize a PLA design for its processor due to flexibility. A PLA is reprogrammable, so it can be changed periodically to accommodate different circumstances. One example in particular disclosed in Moore is the ability to switch instruction sets (col 5 lines 56-69).

It would have been obvious at the time of the invention for one of ordinary skill in the art to take the computing system of Col and allow it to be implemented in a programmable logic array as shown in Moore.

32. Regarding claim 23, Col/Moore discloses the processor of claim 22, wherein said particular field is an op-code of said fused micro-operation (col 8 lines 42-44).

Note that this "particular field" is not very limited. The instruction is considered to have many "particular fields" including an opcode and operands.

33. Regarding claim 24, Col/Moore discloses the processor of claim 22, wherein said multiplexer is to select values for said particular field also based upon an indication that said instruction is not being decoded into a simple micro-operation (col 3 lines 46-56).

34. Regarding claim 25, Col/Moore discloses a processor to execute instructions, the processor comprising: an instruction decoder (fig 4 reference 404) including at least: a programmable logic array to store a micro-operation template to be addressed by an instruction during decoding of said instruction into a fused micro-operation having a particular field (Moore col 5 lines 56-59); and a multiplexer to select values for said particular field based solely upon an indication that said instruction is not being decoded into a simple micro-operation (col 3 lines 46-56).

35. Regarding claim 26, Col/Moore discloses the processor of claim 25, wherein said particular field is an operand of said fused micro-operation (col 8 lines 42-44).

36. Regarding claim 27, Col/Moore discloses the processor of claim 25, wherein said indication comprises bits of a field of said micro-operation template (fig 8).

Note that the opcodes and operands determine whether or not an instruction can be combined, necessary information considered to be comprised by the indication.

37. Regarding claim 28, Col/Moore discloses the processor of claim 25, wherein said instruction decoder further comprises: a decoder (fig 4 reference 404) to generate said

indication from two or more fields of said micro-operation template and from bits extracted directly from said instruction (fig 8).

38. Regarding claim 29, Col/Moore discloses a processor to execute instructions (col 1 lines 26-27), the processor comprising: an instruction decoder (fig 4 reference 404) including at least: a programmable logic array to store a micro-operation template to be addressed by an instruction during decoding of said instruction into a fused micro-operation having a particular field (Moore col 5 lines 56-59); a decoder (fig 4 reference 404) to decode a value from a field of said micro-operation template (col 14 lines 35-45); and a multiplexer to select values for said particular field based solely upon said value and an indication that said instruction is not being decoded into a simple micro-operation (col 3 lines 46-56).

39. Regarding claim 30, Col/Moore discloses the processor of claim 29, wherein said field of said micro-operation template is used to select values of an op-code of said fused micro-operation (col 3 lines 46-56).

40. Regarding claim 31, Col/Moore discloses the processor of claim 29, wherein said particular field is an operand of said fused micro-operation (col 8 lines 42-44).

41. Regarding claim 32, Col/Moore discloses the processor of claim 29, wherein said indication comprises bits of another field of said micro-operation template (fig 8).

Note that the indication comprises bits from the operand field and the opcode field.

42. Regarding claim 33, Col/Moore discloses the processor of claim 29, wherein said instruction decoder further comprises: a decoder to generate said indication from two or more additional fields of said micro-operation template and from bits extracted directly from said instruction (fig 8).

Note that the "two or more fields" can include any operands or opcodes from the second instruction. These bits are considered to be extracted directly as well.

43. Regarding claim 34, Col/Moore discloses a processor to execute instructions (col 1 lines 26-27), the processor comprising: an instruction decoder (fig 4 reference 404) including at least: a programmable logic array (Moore col 5 lines 56-59) to store a micro-operation template to be addressed by one or more instructions that are to be decoded into one or more fused micro-operations and by one or more instructions that are to be decoded into one or more simple micro-operations (col 3 lines 46-56).

44. Regarding claim 35, Col/Moore discloses the processor of claim 34, wherein said micro-operation template includes a field having a value that identifies that both a fused micro-operation and a simple micro-operation can be generated from said micro-operation template (col 3 lines 46-56).

45. Regarding claim 36, Col/Moore discloses the processor of claim 34, wherein said instruction decoder further comprises: a decoder to generate an indication for a particular instruction from two or more fields of said micro-operation template (fig 8) and from bits extracted directly from said particular instruction (fig 8),

Note that these fields "of said micro-operation template" and those "bits extracted directly" are considered to be in the same category of bits (operands and opcodes from the instruction).

Wherein said indication is an indication whether said particular instruction is to be decoded into a fused micro-operation or into a simple micro-operation (fig 8).

46. Claims 22-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Col/Moore (as previously combined) in further view of Takeda (U.S. Patent No. 6,643,720).

47. Regarding claim 37, Col/Moore discloses an apparatus comprising: a processor to execute instructions (col 1 lines 26-27), the processor comprising: an instruction decoder including at least: a programmable logic array (Moore col 5 lines 56-59) to store a micro-operation template to be addressed by an instruction during decoding of said instruction into a fused micro-operation having a particular field (col 3 lines 46-56); and a multiplexer to select values for said particular field based at least upon bits of a field of said micro-operation template (col 3 lines 46-56), wherein the number of said bits is fewer than the number of bits in said particular field (fig 8).

Note that the language of this claim is somewhat confusing. Initially, the claim states that values are selected based "at least" upon bits of a field. This appears to mean that if a field has 5 bits, "the bits" as described in the claim could be anywhere between 2 and 5 bits. Then, the claim later says that "said bits" are fewer than the number of bits in the particular field. So, based on the language used, "said bits" are considered to be any two bits of any field utilized in the determination made in fig. 8.

Col/Moore fails to disclose a voltage monitor.

Takeda discloses a voltage monitor (col 14 lines 45-48).

As shown in Takeda, the voltage monitor utilizes a watchdog timer, which is a mechanism used to restart the main program due to a problem. This, of course, prevents an improper voltage amount from having a negative impact on the system. Col/Moore would be motivated to utilize a voltage monitor for this reason.

It would have been obvious at the time of the invention for one of ordinary skill in the art to take the computing system of Col/Moore and utilize a voltage monitor as shown in Takeda.

48. Regarding claim 38, Col discloses the apparatus of claim 37, wherein said particular field is an op-code of said fused micro-operation (fig 8).

49. Regarding claim 39, Col discloses the apparatus of claim 37, wherein said multiplexer is to select values for said particular field also based upon an indication that said instruction is not being decoded into a simple micro-operation (col 3 lines 46-56).

50. Regarding claim 40, Col discloses an apparatus comprising: a voltage monitor (Takeda col 14 lines 45-48); and a processor to execute instructions (col 1 lines 26-27), the processor comprising: an instruction decoder (fig 4 reference 404) including at least: a programmable logic array (Moore col 5 lines 56-59) to store a micro-operation template to be addressed by an instruction during decoding of said instruction into a fused micro-operation having a particular field (col 3 lines 46-56); and a multiplexer to select values for said particular field based solely upon an indication that said instruction is not being decoded into a simple micro-operation (col 3 lines 46-56).

51. Regarding claim 41, Col discloses the apparatus of claim 40, wherein said particular field is an operand of said fused micro-operation (fig. 8 reference 708).

52. Regarding claim 42, Col discloses the apparatus of claim 40, wherein said indication comprises bits of a field of said micro-operation template (fig 7 reference 706 or 708).

53. Regarding claim 43, Col discloses the apparatus of claim 40, wherein said instruction decoder further comprises: a decoder to generate said indication from two or more fields of said micro-operation template and from bits extracted directly from said instruction (fig 7 reference 706 and 708).

54. Regarding claim 44, Col discloses an apparatus comprising: a voltage monitor (Takeda col 14 lines 45-48); and a processor to execute instructions (col 1 lines 26-27), the processor comprising: an instruction decoder (fig 4 reference 404) including at least: a programmable logic array (Moore col 5 lines 56-59) to store a micro-operation template to be addressed by an instruction during decoding of said instruction into a fused micro-operation having a particular field (col 3 lines 46-56); a decoder to decode a value from a field of said micro-operation template (col 14 lines 35-45); and a multiplexer to select values for said particular field based solely upon said value and an indication that said instruction is not being decoded into a simple micro-operation (col 3 lines 46-56).

55. Regarding claim 45, Col discloses the apparatus of claim 44, wherein said field of said micro-operation template is used to select values of an op-code of said fused micro-operation (col 3 lines 46-56).

Note that the since a fused instruction executes in paralell, then the timing of the op-code selection is affected, meaning that "said field" us used to select a value of the opcode.

56. Regarding claim 46, Col discloses the apparatus of claim 44, wherein said particular field is an operand of said fused micro-operation (col 8 lines 42-44).

57. Regarding claim 47, Col discloses the apparatus of claim 44, wherein said indication comprises bits of another field of said micro-operation template (fig 8).

58. Regarding claim 48, Col discloses the apparatus of claim 44, wherein said instruction decoder further comprises: a decoder to generate said indication from two or more additional fields of said micro-operation template and from bits extracted directly from said instruction (fig 8).

59. Regarding claim 49, Col discloses an apparatus comprising: a voltage monitor (Takeda col 14 lines 45-48); and a processor to execute instructions (col 1 lines 26-27), the processor comprising: an instruction decoder (fig 4 reference 404) including at least: a programmable logic array (Moore col 5 lines 56-59) to store a micro-operation template to be addressed by one or more instructions that are to be decoded into one or more fused micro-operations and by one or more instructions that are to be decoded into one or more simple micro-operations (col 3 lines 46-56).

60. Regarding claim 50, Col discloses the apparatus of claim 49, wherein said micro-operation template includes a field having a value that identifies that both a fused micro-operation and a simple micro-operation can be generated from said micro-operation template (col 3 lines 46-56).

Note that this is considered to be true since both the fused and simple instructions contain opcodes and operands, fields that are the same whether or not the instruction is combined or not.

61. Regarding claim 51, Col discloses the apparatus of claim 49, wherein said instruction decoder further comprises: a decoder to generate an indication for a particular instruction from two or more fields of said micro-operation template and from bits extracted directly from said particular instruction, wherein said indication is an indication whether said particular instruction is to be decoded into a fused micro-operation or into a simple micro-operation (col 3 lines 46-56).

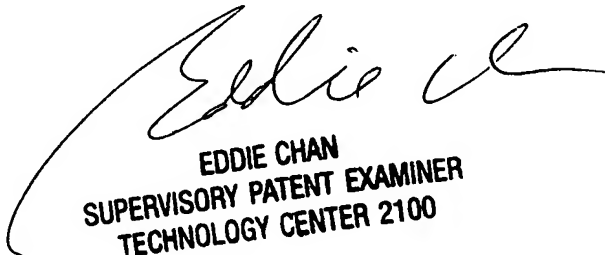
Conclusion

62. The following is text cited from 37 CFR 1.11(c): In amending in reply to a rejection of claims in an application or patent under reexamination, the applicant or patent owner must clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. The applicant or patent owner must also show how the amendments avoid such references or objections.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian P. Johnson whose telephone number is (571) 272-2678. The examiner can normally be reached on 8-4:30 M-F. If attempts to reach the

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examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



EDDIE CHAN
SUPERVISORY PATENT EXAMINER
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